

# Pakiti: A Patching Status Monitoring Tool

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## Introduction

- Pakiti is a tool to monitor the patching status of systems on the Grid
  - Helps site admins identify which of their machines need to be patched
- Client-Server model
- Main Components
  - Client
  - Server
  - Web based UI
  - Database
- Developed and widely used by EGEE



## Pakiti Client

- Simple bash script (with a conf file)
- Gathers information about packages installed on host
  - Uses rpm -qa or dpkg-query
- Client sends a HTTP message to one or more Pakiti servers containing the list of installed packages.
  - -https connection to server possible



## Pakiti Server

- Server receives the list of installed packages from the client and makes the comparison
- It is able to differentiate security patch from normal bug fixes
- Currently works with rpm (yum) and dpkg (apt) based repositories
- Only authenticated users can see the results



# Pakiti Server Settings

- RedHat OVAL Definitions
  - Provides url for OVAL defn that are checked daily
- OS Group Definitions
  - Associate OS name with a repository
  - E.g. Scientific Linux SL 5.4 and Scientific Linux SL release 5.4 (Boron) belong in a single OS group
- Repositories Definitions
  - Locations where update for a OS group is released
  - Security repositories are flagged

E.g. http://ftp.scientificlinux.org/linux/scientific/54/i386/SL/repodata/primary.xml.gz



## How does the server work

- Two methods used to check is packages are up-to-date
  - 1.Downloads information periodically from the vendors repositories and stores them in DB
    - Check conducted when client sends in the report
  - 2.Downloads OVAL definitions and checks the installed packages (clients report) against CVEs (http://cve.mitre.org)
    - Only available for Red-Hat based distributions



# Demo



#### Concerns

- Manually assignment of OS to OS group
- Lack of a fine grain control on the WebUI
  - Either you see all results or none



## Links

http://pakiti.sourceforge.net/

Questions?